

WHAT IS CLAIMED IS:

1. A communication system comprising an information processing apparatus and an output apparatus for outputting in accordance with data from said information processing apparatus, wherein
5 said information processing apparatus and said output apparatus can perform a data communication by using an interface comprising an upper layer and a lower layer, and
10 when said information processing apparatus detects an error at the time of a data communication using the upper layer, a predetermined command specified in the lower layer is used for allowing said output apparatus to recognize the occurrence of the error.
- 15 2. A system according to claim 1, wherein said lower layer is IEEE 1284, said upper layer is IEEE 1284.4, and said predetermined command is a device ID request.
- 20 3. A system according to claim 1, wherein said output apparatus is a printer.
- 25 4. An information processing apparatus which can communicate data with an output apparatus by using an interface comprising an upper layer and a lower layer,
wherein

5 said apparatus comprises issuing means for, when
an error is detected at the time of the data
communication using the upper layer, issuing a
predetermined command specified in the lower layer in
order to allow said output apparatus to recognize the
occurrence of the error.

10 5. An apparatus according to claim 4, wherein
said lower layer is IEEE 1284, said upper layer is
IEEE 1284.4, and said predetermined command is a device
ID request.

15 6. An apparatus according to claim 4, wherein
said output apparatus is a printer.

20 7. An output apparatus which can communicate data
with an information processing apparatus by using an
interface comprising an upper layer and a lower layer,
wherein

25 said apparatus comprises control means for
finishing the data communication using the upper layer
when a predetermined command specified in the lower
layer is received at the time of a data communication
using the upper layer.

25 8. An apparatus according to claim 7, wherein
when the predetermined command specified in the lower

layer is received at the time of the data communication using the upper layer, said control means performs a resetting process and finishes the data communication using the upper layer.

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9. An apparatus according to claim 7, wherein when said predetermined command is received at the time of a data communication using the lower layer without using the upper layer, said control means performs a process corresponding to the predetermined command.
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10. An apparatus according to claim 9, wherein said predetermined command is a device ID request and the process corresponding to said predetermined command is a device ID transmitting process.
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11. An apparatus according to claim 7, wherein said resetting process includes a process to cancel data received before said predetermined command is received or a process to forcedly output said data.
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12. An apparatus according to claim 7, wherein said lower layer is IEEE 1284, said upper layer is IEEE 1284.4, and said predetermined command is a device ID request.
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13. An apparatus according to claim 7, wherein

said output apparatus is a printer.

14. A control method of an information processing apparatus which can communicate data with an output apparatus by using an interface comprising an upper layer and a lower layer, wherein

10 said method comprises an issuing step of, when an error is detected at the time of the data communication using the upper layer, issuing a predetermined command specified in the lower layer in order to allow said output apparatus to recognize the occurrence of the error.

15. A method according to claim 14, wherein said lower layer is IEEE 1284, said upper layer is IEEE 1284.4, and said predetermined command is a device ID request.

20 16. A method according to claim 14, wherein said output apparatus is a printer.

25 17. A control method of an output apparatus which can communicate data with an information processing apparatus by using an interface comprising an upper layer and a lower layer, wherein

said method comprises a control step of finishing the data communication using the upper layer when a

predetermined command specified in the lower layer is received at the time of a data communication using the upper layer.

5 18. A method according to claim 17, wherein when the predetermined command specified in the lower layer is received at the time of the data communication using the upper layer, in said control step, a resetting process is performed and the data communication using
10 the upper layer is finished.

19. A method according to claim 17, wherein when said predetermined command is received at the time of a data communication using the lower layer without using
15 the upper layer, in said control step, a process corresponding to the predetermined command is performed.

20 20. A method according to claim 19, wherein said predetermined command is a device ID request and the process corresponding to said predetermined command is a device ID transmitting process.

21. A method according to claim 17, wherein said
25 resetting process includes a process to cancel data received before said predetermined command is received or a process to forcedly output said data.

22. A method according to claim 17, wherein said lower layer is IEEE 1284, said upper layer is IEEE 1284.4, and said predetermined command is a device ID request.

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23. A method according to claim 17, wherein said output apparatus is a printer.

24. A machine-readable memory medium which stores
10 a control program of an information processing apparatus which can communicate data with an output apparatus by using an interface comprising an upper layer and a lower layer, wherein

15 said program comprises an issuing step of, when an error is detected at the time of a data communication using the upper layer, issuing a predetermined command specified in the lower layer in order to allow said output apparatus to recognize the occurrence of the error.

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25. A medium according to claim 24, wherein said lower layer is IEEE 1284, said upper layer is IEEE 1284.4, and said predetermined command is a device ID request.

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26. A medium according to claim 24, wherein said output apparatus is a printer.

27. A machine-readable memory medium which stores
a control program of an output apparatus which can
communicate data with an information processing
apparatus by using an interface comprising an upper
5 layer and a lower layer, wherein

said program comprises a control step of finishing
the data communication using the upper layer when a
predetermined command specified in the lower layer is
received at the time of a data communication using the
10 upper layer.

28. A medium according to claim 27, wherein when
the predetermined command specified in the lower layer
is received at the time of the data communication using
15 the upper layer, in said control step, a resetting
process is performed and the data communication using
the upper layer is finished.

29. A medium according to claim 27, wherein when
20 said predetermined command is received at the time of a
data communication using the lower layer without using
the upper layer, in said control step, a process
corresponding to the predetermined command is
performed.

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30. A medium according to claim 29, wherein said
predetermined command is a device ID request and the

process corresponding to said predetermined command is
a device ID transmitting process.

31. A medium according to claim 27, wherein said
5 resetting process includes a process to cancel data
received before said predetermined command is received
or a process to forcedly output said data.

32. A medium according to claim 27, wherein said
10 lower layer is IEEE 1284, said upper layer is IEEE
1284.4, and said predetermined command is a device ID
request.

33. A medium according to claim 27, wherein said
15 output apparatus is a printer.